# Ni-MH VHT D U

ARTS Energy's VHT high temperature Ni-MH series are perfectly suited to professional applications requiring a battery with an exceptionnal robustness. It is designed to operate in very demanding environment.

To meet customers' requirements, ARTS Energy provides custom-designed and standardised battery packs.

For your battery design and system needs, please **contact ARTS Energy**.

ELECTRICAL CHARACTERISTICS	
Nominal voltage (V)	1.2
• Typical capacity (mAh)*	6400
• IEC minimum capacity (mAh)*	6000
IEC designation	HRMU 33/62

4

Current

5 years

5 to 10 years

5 to 10 years

• Impedance at 1000 Hz (m $\Omega$ ) \* Charge 16 h at C/10, discharge at C/5.

DIMENSIONS	
Diameter (mm)	32.15 ± 0.1
• Height (mm)	58.2 ± 0.4
• Weight (g)	135

Temp. (°C)

1 discharge/month max

1 discharge/day max

1 discharge/day max

Dimensions are given for bare cells.

**CHARGE CONDITIONS** 

ELU applications

Solar applications

• Back up applications

CYCLING CONDITIONS	Cycling	Life duration
	-40 to +85	C/20 max
	-20 to +85	C/5 max
	0 to +85	C/2 max
	+20 to +85	3C max
DISCHARGE CONDITIONS	Temp. (°C)	Current
Solar applications	-40 to +85	C/3 max
Back up applications	-20 to +85	Consult ARTS Energy
<ul> <li>ELU applications</li> </ul>	0 to +50	Intermittent
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# **APPLICATIONS**

- Emergency lighting (ELU)
- Back-up systems
- Pack shaving applications (money saving)
- Professional electronics
- Solar

## MAIN BENEFITS

- Very high cycle life
- Exceptional temperature range
- Superior robustness

#### **TECHNOLOGY**

- Foam positive electrode
- Plastic bonded metal-hybride negative electrode



The VHT D U has been designed to offer a very long life duration in a wide range of temperature.

In ELU the VHT D U will offer more than 4 years life at 50°C permanent temperature (U type cell).

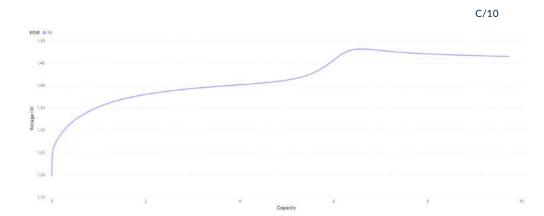
In cycling application (solar, peak shaving), the VHT D U will offer 5 to 10 years life in an environment from -40°C to +85°C. It delivers for example, 5000 cycles at 50% DOD.

To meet customers' requirements, ARTS Energy provides custom-designed and standardised battery packs.

For applications below -20°C and above +60°C, please contact ARTS Energy to confirm the optimum battery design, and to agree the usage profiles.



### Performances +20°C

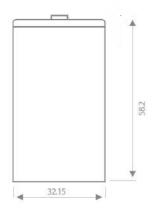


#### **STORAGE**

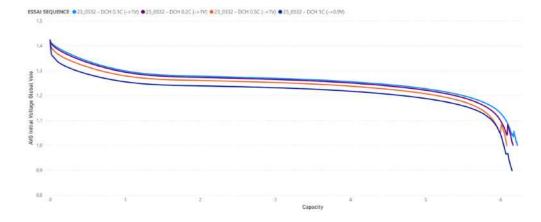
Recommended: +5°C to +25°C

Relative humidity: 65 ± 5 %

#### TYPICAL DIMENSIONS



Typical dimensions (mm). Without tube.



The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy

Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

Data in this document is subject to change without notice and



become contractual only after written confirmation by ARTS Energy